

# Fuji Miniature DIN Super Timers

## Overview

The ST7P is a compact and highly accurate timer. It is an on-delay operation type with a single timing range. These timers are designed to optimize mounting space in small areas. Mounting is by DIN rail or by securing directly to a panel with a fastener.

## Features

- Highly accurate, with a repeat accuracy within  $\pm 1\%$  at maximum setting time
- ST7P models offer a number of timing ranges. Please see Selection Guide below
- Large dial makes time setting easy
- LED indicators make it easy to monitor timer operation
- ST7P series meets UL and CSA standards



ST7P Miniature Super Timer with TP88X2 Socket

Product Selection Guide				
Part Number	Description	Voltage	Time Range	Price
<b>ST7P-2A15S-ADC</b>	Mini-DIN on-delay timer with timing range of 0.4s to 5s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved	100-120VAC	0.4 seconds to 5 seconds	<--->
<b>ST7P-2A13T-ADC</b>	Mini-DIN on-delay timer with timing range of 2s to 30s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		2 seconds to 30 seconds	<--->
<b>ST7P-2A16T-ADC</b>	Mini-DIN on-delay timer with timing range of 4s to 60s. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		4 seconds to 60 seconds	<--->
<b>ST7P-2A11N-ADC</b>	Mini-DIN on-delay timer with timing range of 1 min. to 10 min. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		1 minute to 10 minutes	<--->
<b>ST7P-2A16N-ADC</b>	Mini-DIN on-delay timer with timing range of 4 min. to 60 min. Input power is 100-120 VAC. DPDT relay output. UL, CSA, TÜV approved		4 minutes to 60 minutes	<--->
<b>ST7P-2DE5S-ADC</b>	Mini-DIN on-delay timer with timing range of 0.4s to 5s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved		24VDC	0.4 seconds to 5 seconds
<b>ST7P-2DE3T-ADC</b>	Mini-DIN on-delay timer with timing range of 2s to 30s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved	2 seconds to 30 seconds		<--->
<b>ST7P-2DE6T-ADC</b>	Mini-DIN on-delay timer with timing range of 4s to 60s. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved	4 seconds to 60 seconds		<--->
<b>ST7P-2DE1N-ADC</b>	Mini-DIN on-delay timer with timing range of 1 min. to 10 min. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved	1 minute to 10 minutes		<--->
<b>ST7P-2DE6N-ADC</b>	Mini-DIN on-delay timer with timing range of 4 min. to 60 min. Input power is 24 VDC. DPDT relay output. UL, CSA, TÜV approved	4 minutes to 60 minutes		<--->
<b>TP88X2</b>	Socket for ST7P series timers. UL, CSA, TÜV approved	N/A	N/A	<--->

# Fuji Miniature DIN Super Timer Specifications

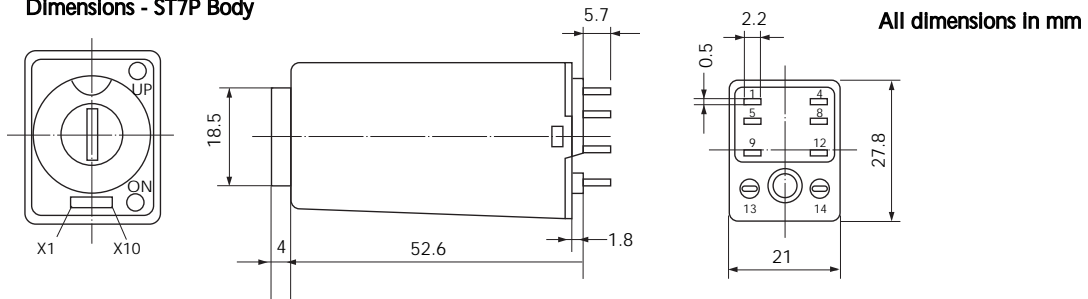
Specifications													
<b>Approvals</b>	UL file no.: Body - E44592, Socket - E90265; CSA file no.: LR20479; TÜV license no: R9551799												
<b>Repeat Accuracy</b>	±01% at maximum setting time												
<b>Reset Time</b>	0.1 second or less												
<b>Maximum Operating Cycle</b>	1800 cycles/hour												
<b>Operating Voltage Range</b>	<table border="0"> <tr> <td>85-132 VAC</td> <td>20.4-26.4 VDC</td> </tr> <tr> <td>ST7P-2A15S-ADC</td> <td>ST7P-2DE5S-ADC</td> </tr> <tr> <td>ST7P-2A13T-ADC</td> <td>ST7P-2DE3T-ADC</td> </tr> <tr> <td>ST7P-2A16T-ADC</td> <td>ST7P-2DE6T-ADC</td> </tr> <tr> <td>ST7P-2A11N-ADC</td> <td>ST7P-2DE1N-ADC</td> </tr> <tr> <td>ST7P-2A16N-ADC</td> <td>ST7P-2DE6N-ADC</td> </tr> </table>	85-132 VAC	20.4-26.4 VDC	ST7P-2A15S-ADC	ST7P-2DE5S-ADC	ST7P-2A13T-ADC	ST7P-2DE3T-ADC	ST7P-2A16T-ADC	ST7P-2DE6T-ADC	ST7P-2A11N-ADC	ST7P-2DE1N-ADC	ST7P-2A16N-ADC	ST7P-2DE6N-ADC
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ST7P-2A16N-ADC	ST7P-2DE6N-ADC												
<b>Operating Temperature Range</b>	-10 to +50°C (14 to 122°F)												
<b>Humidity</b>	35 to 85% (no condensation)												
<b>Contact Ratings</b>	3 A @ 240 VAC resistive load, 1 A @120 VAC inductive load; 3 A @ 30 VDC resistive load, 0.5 A @ 30 VDC inductive load												
<b>Power Consumption</b>	Approx. 1.2 VA at 100 VAC, approx. 1.5 VA at 200 VAC, 1.1 W at 24 VDC.												
<b>Insulation Resistance</b>	100MΩ at 500 VDC insulation tested												
<b>Surge Voltage*</b>	3000 Volts												
<b>Dielectric Strength</b>	2000 VAC 1 min. between current carrying part and non-current carrying part 2000 VAC 1 min. between output contact and control circuit 1000 VAC 1 min. between open contacts												
<b>Vibration</b>	Malfunction durability: 10 to 55Hz, 0.5mm double amplitude Mechanical durability: 10 to 55Hz, 0.7mm double amplitude												
<b>Shock</b>	Malfunction durability: 50m/s <sup>2</sup> Mechanical durability: 1000m/s <sup>2</sup>												
<b>Life Expectancy</b>	Mechanical: 50 million operations (No load; operation cycle 1800/hr.) Electrical: 500,000 operations (3 A @ 220 VAC, resistive load; operation cycle 1800/hr.)												
<b>Weight</b>	36.288g (1.28 oz.)												

\* Note: If surge voltage exceeds 3000V, use surge suppressors.

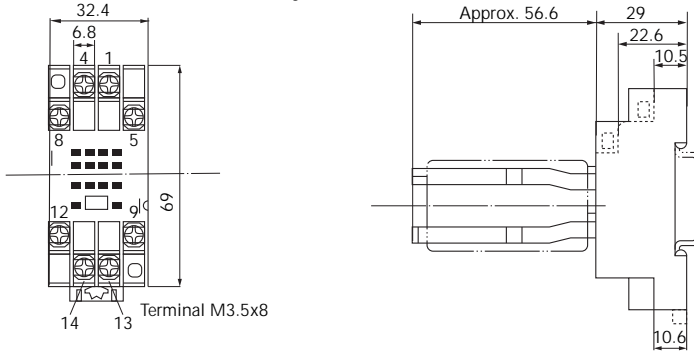
- PLC Overview
- DL05/06 PLC
- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
- C-more HMIs
- Other HMI
- AC Drives
- Motors
- Steppers/ Servos
- Motor Controls
- Proximity Sensors
- Photo Sensors
- Limit Switches
- Encoders
- Current Sensors
- Pushbuttons/ Lights
- Process
- Relays/ Timers**
- Comm.
- TB's & Wiring
- Power
- Circuit Protection
- Enclosures
- Appendix
- Part Index

# Fuji Miniature DIN Timers Timing and Wiring

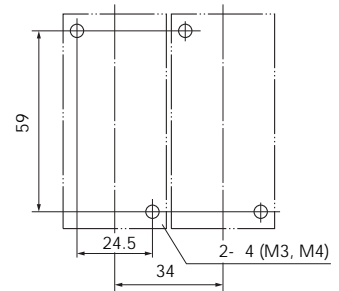
Dimensions - ST7P Body



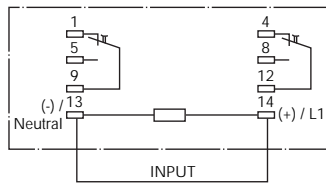
Dimensions - TP88X2 Body



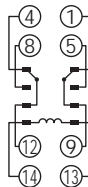
Panel Drilling



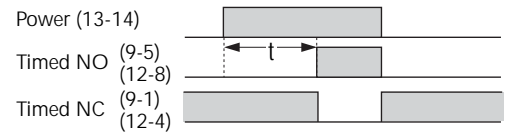
Wiring Diagram



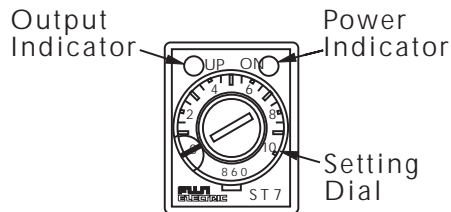
Sockets/Screw Terminal and Rail Mounting



Timing Diagram



Control



Dimensions (Timer and Socket Attached)

